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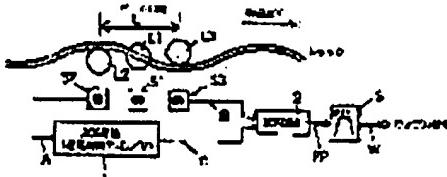
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(54) OPTICAL DISK RECORDING AND REPRODUCING APPARATUS

(57) Abstract:

PROBLEM TO BE SOLVED: To generate a precise wobble signal stable by a method wherein a subtraction circuit which finds the difference between the output of a first nonsplit photodetector delayed by a delay circuit and the output of a second nonsplit photodetector is installed as a wobble signal generation means.

SOLUTION: A main beam L1 scans a track on an optical disk, a preceding means L2 scans an area on the outer circumferential side adjacent to the track, and a succeeding beam L3 scans an area on the inner circumferential side in the same manner. Regarding irradiation positions of the respective means, the preceding beam L2 and the succeeding beam L3 are separated by a distance L so as to sandwich the main beam L1. Beams of reflected light of the respective beam L1 to L3 are detected respectively by a photodetector S1 and nonsplit photodetectors S2, S3. The output signal A of the photodetector S2 is input to a subtraction circuit 2 as a signal C via a delay circuit 1. On the other hand, the output of the photodetector S3 is input to the subtraction circuit 2 as it is. The difference signal PP of both inputs is output from the subtraction circuit 2 so as to become a wobble signal W through a BPF 3.



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